

IN THE DRAWINGS:

The attached two sheets of drawings includes changes to Figs. 1a, 3, 4, 5, 7, 8, 10, 11, and 12. The [REPLACEMENT] sheet of each of those Figs. replaces its respective Fig. sheet (e.g., [REPLACEMENT] Fig. 1a replaces original Fig. 1a). Figs. 1a, 3, 4, 5, 7, 8, 10, 11, and 12 are amended to not contain captions to the drawings.

Attachment(s):      Replacement Sheet (Fig. 1a)  
                        Annotated Sheet Showing Changes (Fig. 1a)  
                        Replacement Sheet (Figs. 3 and 4)  
                        Annotated Sheet Showing Changes (Figs. 3 and 4)  
                        Replacement Sheet (Figs. 5 and 6)  
                        Annotated Sheet Showing Changes (Figs. 5 and 6)  
                        Replacement Sheet (Fig. 7)  
                        Annotated Sheet Showing Changes (Fig. 7)  
                        Replacement Sheet (Fig. 8)  
                        Annotated Sheet Showing Changes (Fig. 8)  
                        Replacement Sheet (Figs. 10 and 11)  
                        Annotated Sheet Showing Changes (Figs. 10 and 11)  
                        Replacement Sheet (Fig. 12)  
                        Annotated Sheet Showing Changes (Fig. 12)

REMARKS

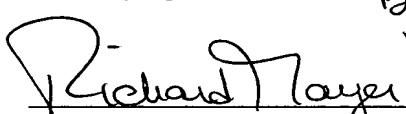
Entry of this Amendment is respectfully requested. No new matter is added. The above-amended Figs. originally contained captions. This Amendment serves to conform the Drawings to the U.S. Patent and Trademark Office rules more completely.

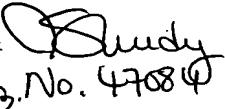
If any fees are due in connection with this Amendment, the Commissioner is authorized to charge and/or credit the **Kenyon & Kenyon Deposit Account No. 11-0600**.

A duplicate of this Transmittal is included for such purpose(s).

Dated: May 25, 2005

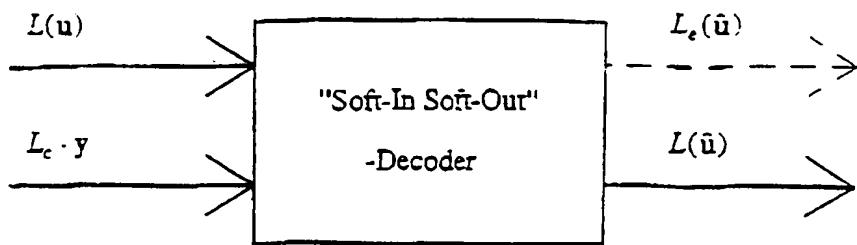
By:

R-  
Richard Mayer

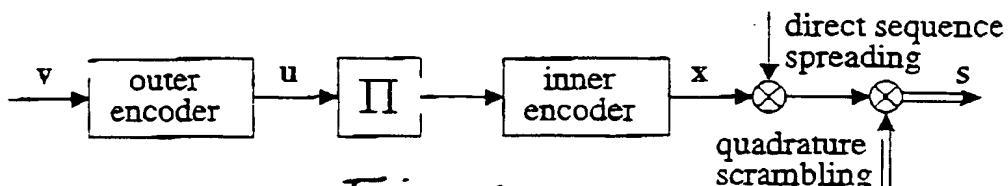
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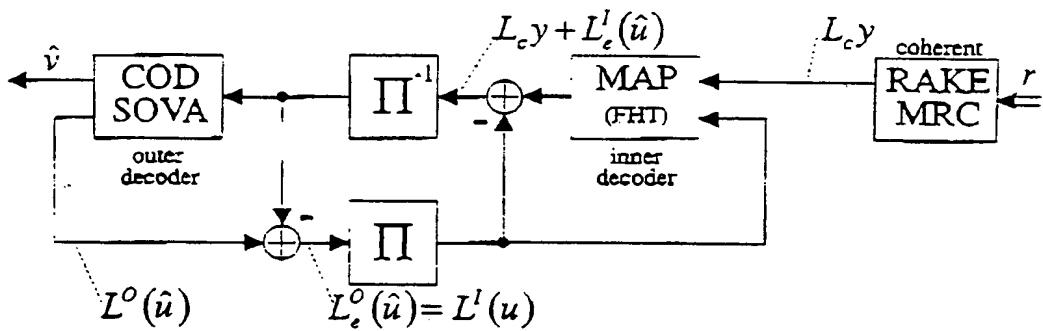
# [ANNOTATED SHEET]



*Fig. 1a* "Soft-In Soft-Out" -Decoder



*Fig. 1b*



*Fig. 2*

# [ANNOTATED SHEET]

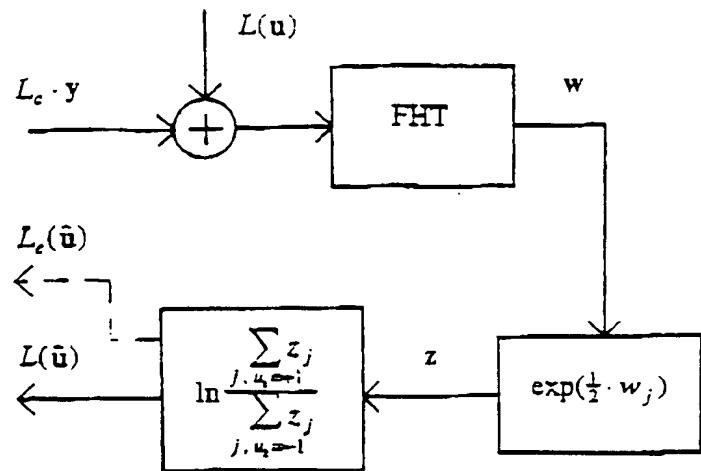


Fig. 3: Decoderstruktur für den inneren Hadamard Code

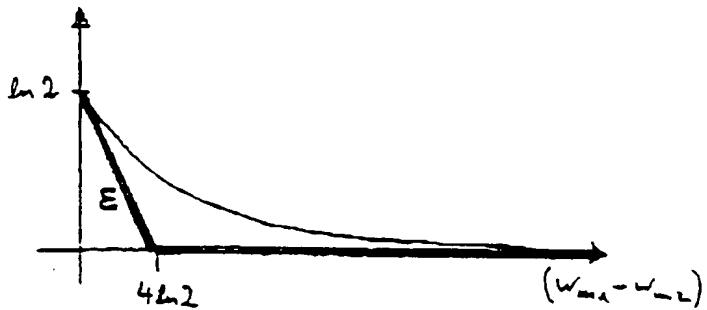
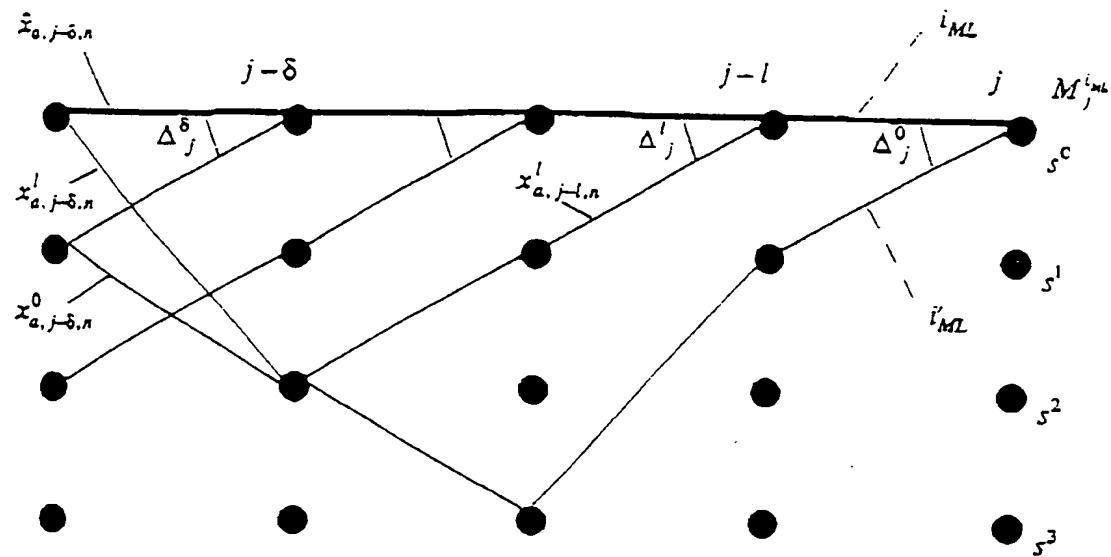


Fig. 4: Verdeutlichung der Näherung für  $\epsilon$

# [ANNOTATED SHEET]



~~Fig. 5 Trellisdiagramm mit verworfenen Pfaden entlang des Maximum-Likelihood-Pfades~~

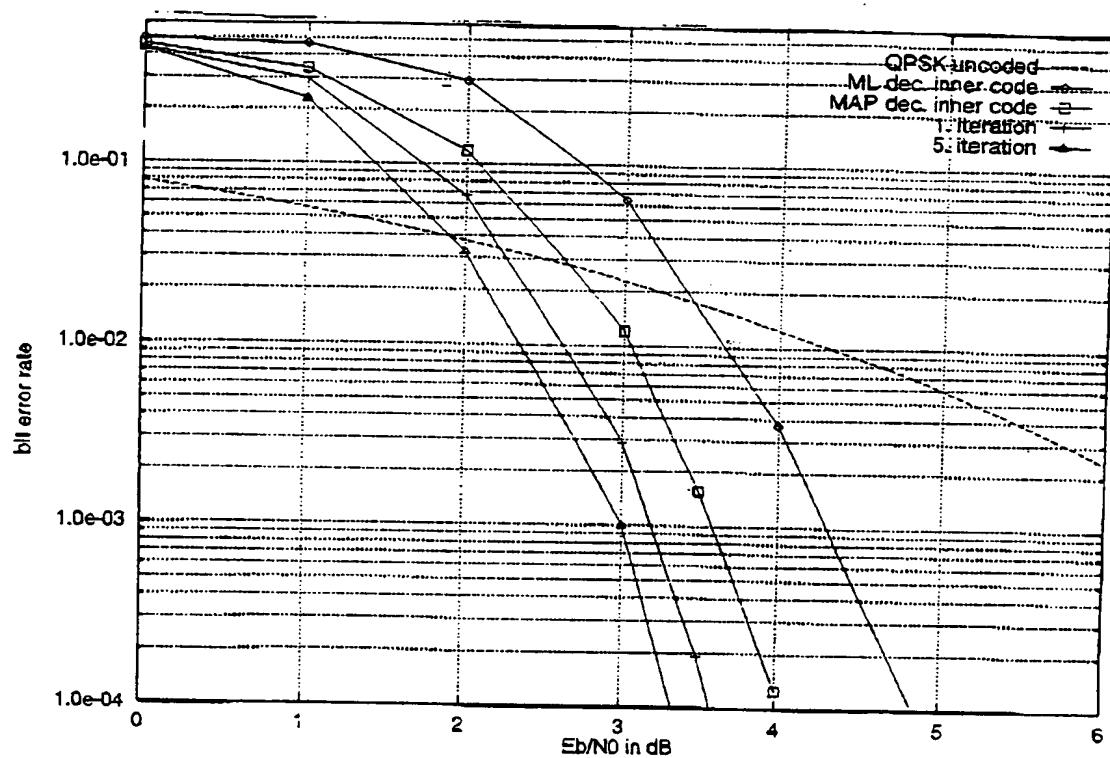
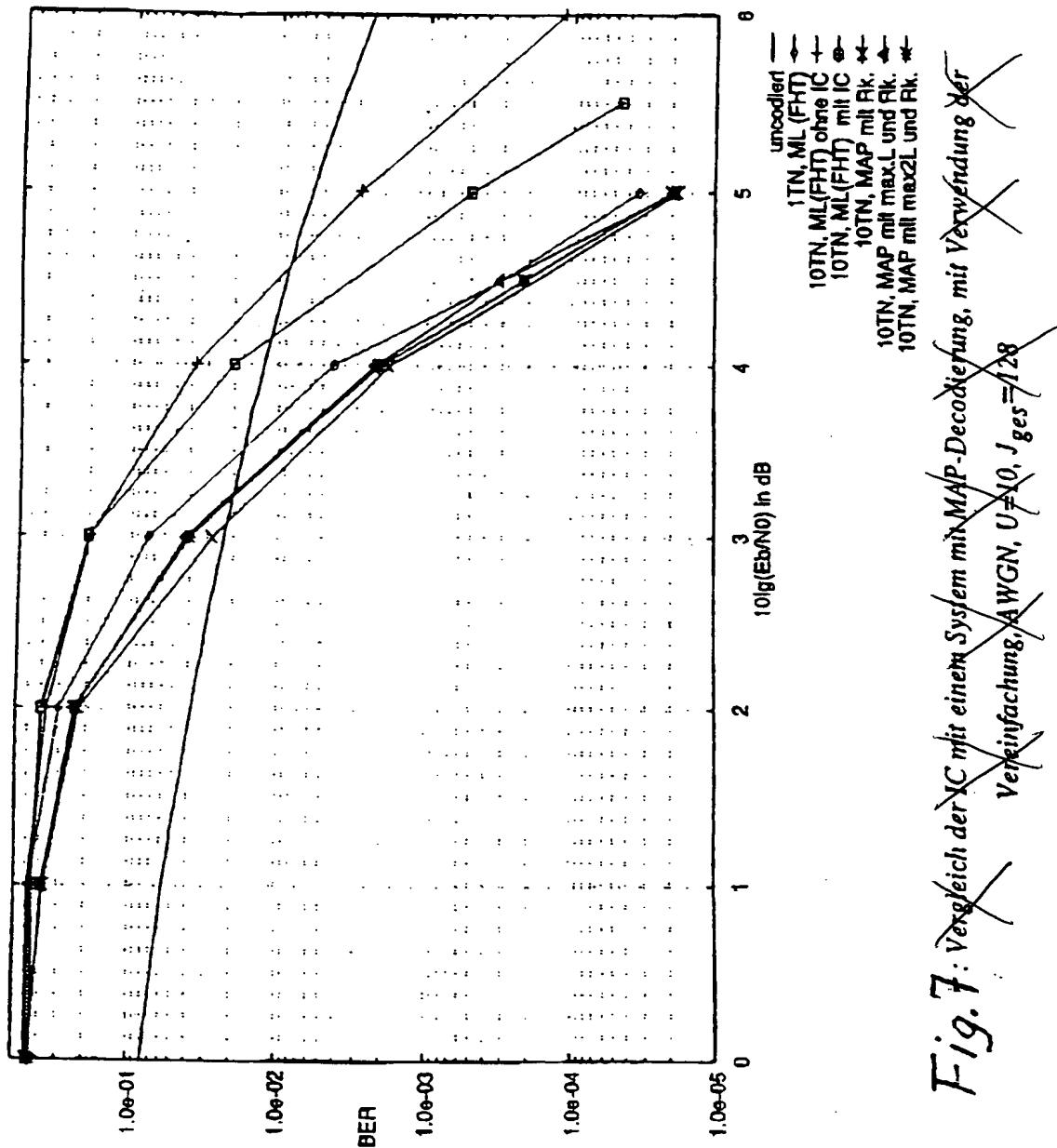
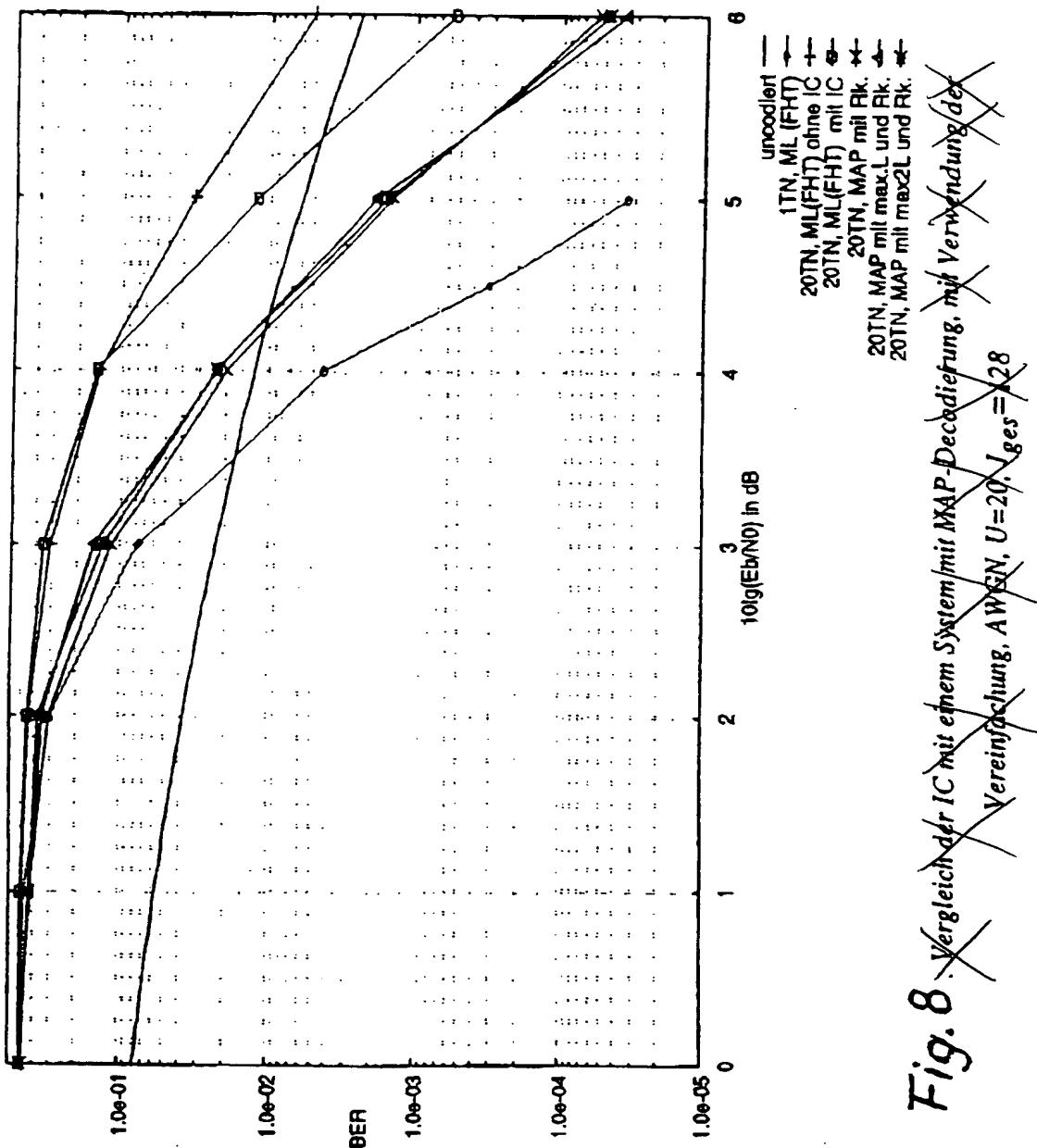


Fig. 6

# [ANNOTATED SHEET]

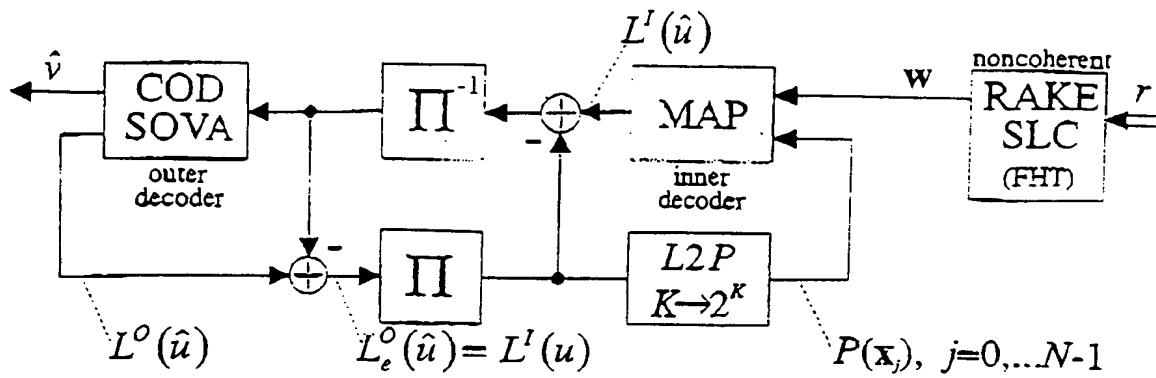


# [ANNOTATED SHEET]



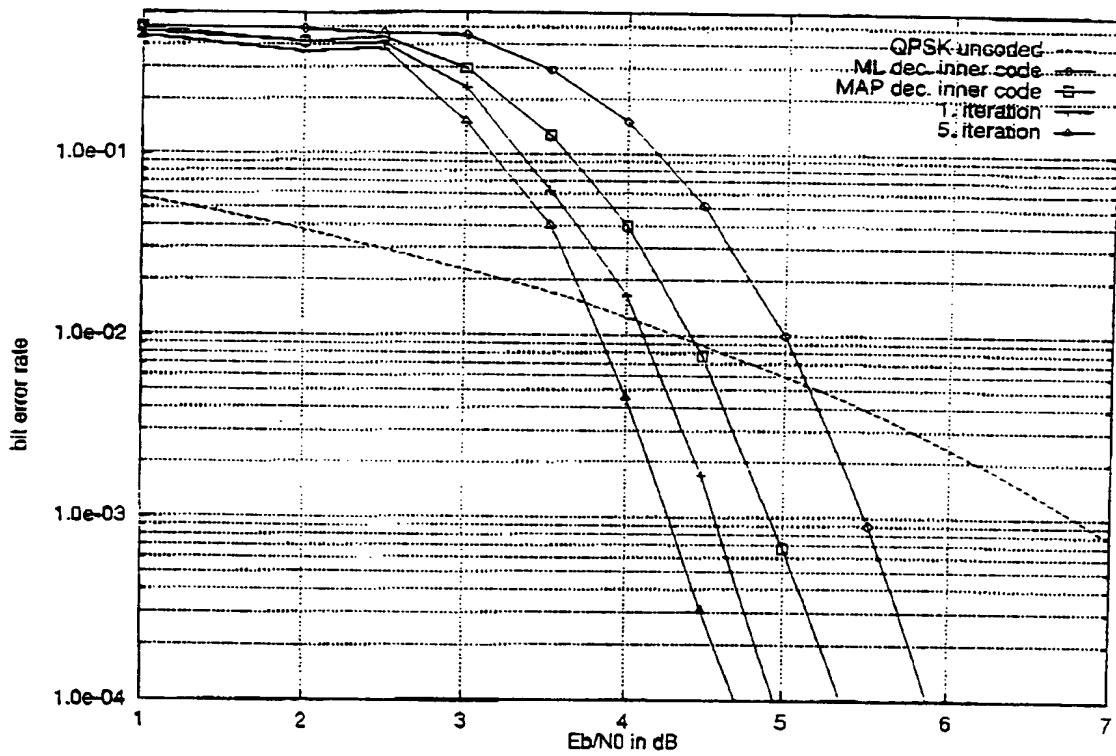
~~Fig. 8: Vergleich der IC mit einem System mit MAP-Decodierung, mit Verwendung der Vereinfachung, AWGN, U=20, I<sub>ges</sub>=128~~

# [ANNOTATED SHEET]



~~Iterative decoding in the noncoherent receiver.~~

Fig. 10



~~Simulation results for the noncoherent RAKE receiver.~~

Fig. 11

# [ANNOTATED SHEET]

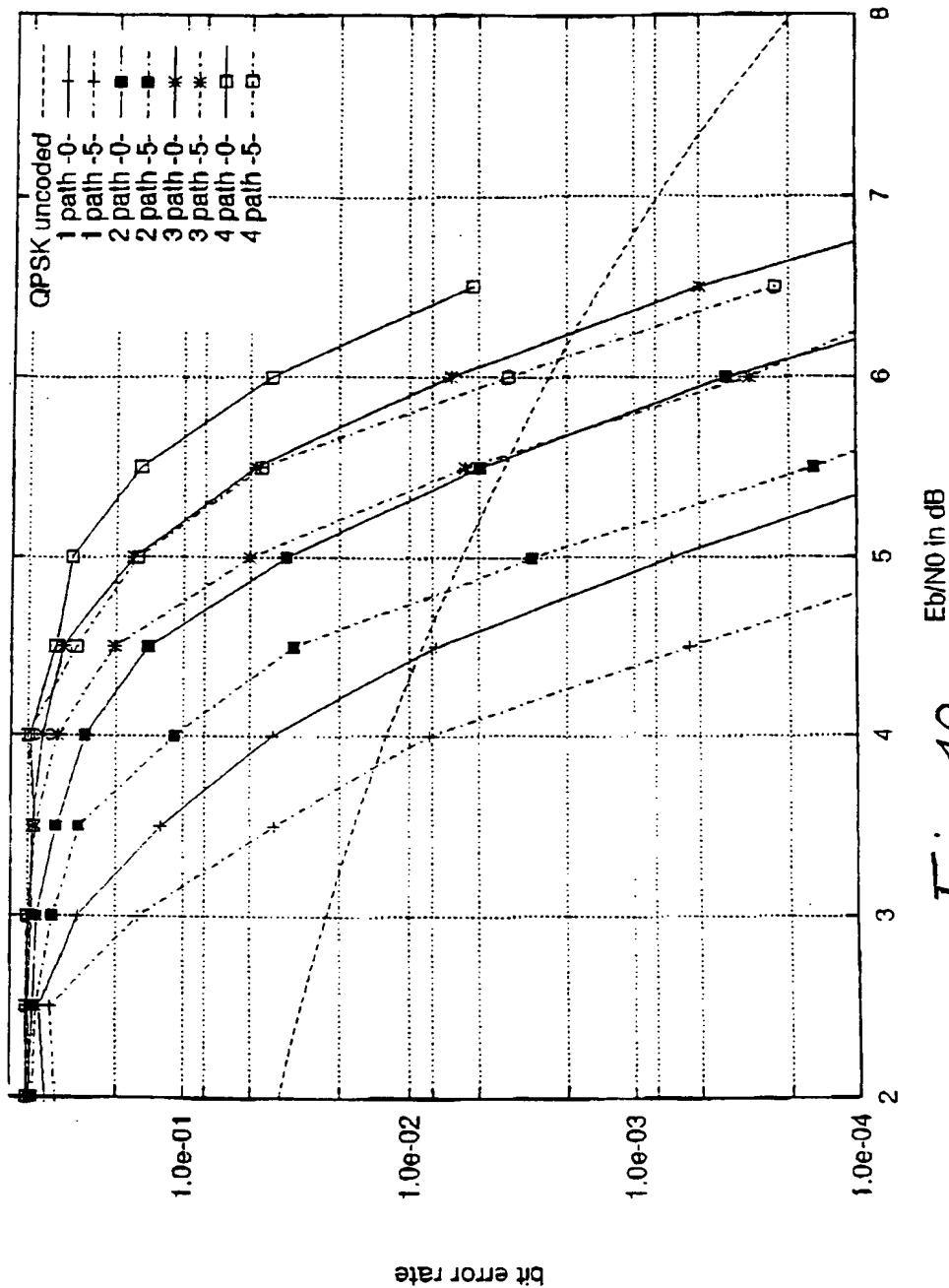


Fig. 12

~~Simulation results for the noncoherent RAKE receiver with several static multipath channels and MAP decoding, without (-0-) and after the 5th iteration (-5-).~~